NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry, and Natural Sciences

Group:	James Beasley, Charles Beck, Charles Duso, Alexander Grzesiak, Erik Strauss
Project Title:	Boston University - Microfluid Experimentation Data Generator
Deliverable:	D.1.1. Initial Description
Course:	CS386 – Spring 2017
Instructor:	Professor Gerosa
Github:	https://github.com/TheAwesomeEgg/CS386ProjectGroup1.git

Introduction

The purpose of this document is to describe the practical project we intend to pursue this semester. This description will cover the problem we are solving, the service we aim to provide, and a description of the system.

Initial Project Description

We are proposing to develop a web application to be used in research towards microfluidic experimentation that is currently being conducted at Boston University. The problem that our application will be solving is the current inability for researchers at Boston University to easily communicate instructions to the hardware they are developing. The service we intend to provide will be a web UI that allows users to create data structures, containing processes that will be executed by hardware. This service will be completed by way of a selection interface that allows the user to choose the hardware they wish to input to and the instructions they would like the hardware to perform. When the user has finished inputting all instructions, the collected information will be written to a file and downloaded to the user's computer.

Conclusion

We are excited to begin developing this service and are hopeful that the proposal is found to be sufficient for this course. If there are any questions or concerns, we are open to discussion and willing to modify the project to meet the needs of the course requirements.

Group Participation

This assignment was not significant enough in terms of workload to split the assignment amongst each team member and so we delegated the task of writing the proposal to James Beasley; and the task of formatting, writing the introduction, and writing the conclusion to Charles Duso. The other team members participated by helping us formulate our ideas so that we could construct a coherent document.